

100/6939

FORM PTO-1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO. DENSE-052A

SERIAL NO. 10/016,939

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

APPLICANT Glen E. Rooters, et al.

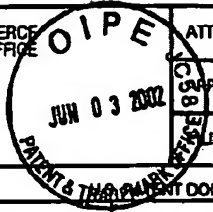
(Use several sheets if necessary)

FILING DATE December 14, 2001

GROUP 1376

2829

(37 CFR 1.98(b))



EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
OK	3 7 2 3 9 7 7	03-27-1973	Schafale			
	3 7 4 6 9 3 4	07-17-1973	Stein			
	4 3 7 1 9 1 2	02-1-1983	Gurik			
	4 6 3 8 3 4 8	01-20-1987	Brown et al.			
	4 7 6 1 6 8 1	09-02-1988	Field			
	4 8 4 1 3 5 5	01-20-1989	Parks			
	4 8 5 1 6 9 5	06-25-1989	Stein, Karl-Ulrich			
	4 8 6 8 7 1 2	09-19-1989	Woodman			
	4 9 5 6 6 9 4	09-11-1990	Elde			
	5 1 1 7 2 8 2	05-26-1992	Selatin			
	5 1 2 8 8 3 1	06-07-1992	Fox, III et al.			
	5 1 9 8 8 8 6	03-30-1993	Supano et al.			

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TC 1700

N/B 06/20/06

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
					YES NO

## OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)


EXAMINER

DATE CONSIDERED

3/3/05

EXAMINER: Initial citation considered. Draw line through citation if not in conformation and not considered. Include copy of this form with next communication to applicant.

Atty: KJ M. Seltina  
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75 Enterprise, Suite 250  
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1449 03/09/05 (page 1 OF 4)

10016939

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APPLICANT Glen E. Roeters, et al.

(37 CFR 1.98(b))

(Use several sheets if necessary)

FILING DATE December 14, 2001

GROUP 1775 2829

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>ME</i>	5 4 4 8 5 1 1	09-06-1995	Paarus et al.			
	5 4 6 6 6 3 4	11-14-1995	Baistein, Jr. et al.			
	5 5 1 4 9 0 7	05-07-1996	Moshayedi			
	5 6 0 7 5 3 8	03-04-1997	Cooke			
	5 6 1 2 5 7 0	03-18-1997	Eide et al.			
	5 6 4 6 4 4 6	07-08-1997	Nicewarner, Jr. et al.			
	5 7 0 0 7 1 5	12-23-1997	Pasch			
	5 7 1 2 7 6 7	01-27-1998	Kotzum			
	5 7 3 1 6 3 3	03-24-1998	Clayton			
	5 7 5 9 0 4 6	06-02-1998	Ingraham et al.			
	5 8 1 8 1 0 6	10-06-1998	Kurimatsu			
<i>ME</i>	5 8 6 9 3 6 3	02-09-1999	Levy et al.			

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MPB 06/20/06

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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					YES NO

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10016939

COMMERCIAL  
MARK OFFICE  
SURE  
PLANT  
JUN 03 2002  
PATENT & TRADEMARK OFFICE

## PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER								ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE & APPROPRIATE
<i>[Signature]</i>	5	8	6	9	8	9	6	02-09-1999	Baker et al.				
	5	9	3	0	6	0	3	07-27-1999	Tsuji et al.				
	5	9	5	0	3	0	4	09-14-1999	Khandros et al.				
	6	0	5	7	3	8	1	05-02-2000	Ma et al.				
	6	1	8	0	8	8	1	01-30-2001	Izaak				
	6	2	6	2	8	9	5	07-17-2001	Forthum				
<i>[Signature]</i>	6	3	2	3	0	6	0	11-27-2001	Izaak				

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**FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION**

	DOCUMENT NUMBER								PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
<i>OK</i>		6	-	7	7	6	4	4	03/1994	Japan		1111	X	
		4	2	0	9	5	6	2	07/1992	Japan		1111		X
		2	2	3	9	6	5	1	09/1990	Japan		1111		X
		5	6	8	8	3	2	4	07/1981	Japan		1111	X	
<i>OK</i>	6	0	1	9	4	5	1	8	10/1985	Japan		1111	X	

## OTHER DOCUMENTS (including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*\*)

AK			ANONYMOUS, Organic Card Device Carrier, Research Disclosure, May 1990, Number 313 ✓
			"Megabyte per cubic inch," Defense Science, May 1988, p. 56 ✓
AK			"Three Dimensional Packaging," Defense Science, May 1988, p. 65 ✓
			Robert Amunroe, "Ball Grid Array Technology," EDN Products Edition, Jan 1997, pp. 23-24 ✓

**EXAMINER**

DATE CONSIDERED

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IDS1449.PTD

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**(Use as many sheets as necessary)**

Sheet	4
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4

of

13

Application Number

10/016.939

Filing Date

**December 14, 2001**

First Named Inventor

**Glen E. Roeters**

**Art Unit**

2829

**Examiner Name**

**David A. Zarake**

Attorney Docket Number

DPAC-052A / AK 155574

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
DAZ		US-5,817,709	6/28/1999	Johnson, et al.	
		US-5,895,970	4/20/1999	Miyoshi, et al.	
		US-5,841,721	11/24/1998	Kwon, et al.	
		US-5,805,422	9/8/1998	Otake, et al.	
		US-5,804,870	9/8/1998	Burns	
		US-5,801,439	9/1/1998	Fujisawa, et al.	
		US-5,789,815	8/4/1998	Tessier, et al.	
		US-5,783,464	7/21/1998	Burns	
		US-5,778,552 522	7/14/1998	Burns	
		US-5,776,797	7/7/1998	Nicewarner, Jr., et al.	
		US-5,784,497	6/9/1998	Mizuno, et al.	
		US-5,763,296	6/9/1998	Cesati, et al.	
		US-5,729,894	3/24/1998	Rostoker, et al.	
		US-5,657,537	8/19/1997	Sala, et al.	
		US-5,642,055	6/24/1997	Difrancesco	
		US-5,588,205	12/31/1996	Roane	
		US-5,523,695	6/4/1996	Lin	
		US-5,502,333	3/26/1996	Bertin, et al.	
		US-5,477,082	12/19/1995	Buckley III, et al.	
DAZ		US-5,438,224	8/1/1995	Papageorgoe, et al.	

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06/20/06

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Examiner Signature	/David Zarneke/	Date Considered	05/18/2006
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\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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AUS:572852.1

1449 05/24/06 (page 4 of 20)

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Substitute for form 1448/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				<b>Complete If Known</b>	
Application Number				10/016,939	
Filing Date				December 14, 2001	
First Named Inventor				Glen E. Roeters	
Art Unit				2629	
Examiner Name				David A. Zameke	
Attorney Docket Number				DPAC-052A / AK 155574	
Sheet	8	of	13		

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
DAZ		US-6,313,998	11/6/2001	Kledzik	
		US-6,303,981	10/16/2001	Moden	
		US-6,097,087	8/1/2000	Farnworth, et al.	
		US-6,028,352	2/22/2000	Eide.	
		US-5,925,934	7/20/1999	Lim	
		US-5,835,988	11/10/1998	Ishii	
		US-5,778,522 A	7/14/1998	Burns	
		US-5,744,827	4/28/1998	Jeong, et al.	
		US-5,677,569	10/14/1997	Choi, et al.	
		US-5,375,041	12/20/1994	McMahon	
		US-5,259,770	11/8/1993	Bates, et al.	
		US-5,243,133	9/7/1993	Engle, et al.	
		US-5,240,588	8/3/1993	Uchida	
		US-5,219,794	6/15/1993	Sato, et al.	
		US-5,158,912	10/27/1992	Kellerman, et al.	
		US-5,122,862	6/16/1992	Kajihara, et al.	
		US-5,081,067 01/4/1992	11/4/1992	Shimm, et al. SHIMIZU ET AL.	
		US-5,064,762	11/12/1991	Nishiguchi	
		US-4,839,717	6/13/1989	Phy, et al.	
DAZ		US-4,758,875	7/19/1988	Fujisawa, et al.	

06/20/06

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Examiner Signature	/David Zarneke/	Date Considered	05/18/2006
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Substitute for form 1449/PTO				Complete if known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Application Number	10/016,939
				Filing Date	December 14, 2001
				First Named Inventor	Glen E. Roeters
				Art Unit	2829
				Examiner Name	David A. Zameke
				Attorney Docket Number	DPAC-052A / AK 155574
Sheet	9	of	13		

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		Number-Kind Code <sup>2</sup> (if known)	MM-DD-YYYY		
DAZ		US-4,722,691	2/2/1988	Gladd, et al.	
		US-4,696,525	9/29/1987	Coller, et al.	
		US-4,079,511	3/21/1978	Grabbe	
		US-3,411,122	11/12/1968	Schiller, et al.	
		US-2005/0040508 A1	2/24/2005	Lee	
		US-2005/0035440 A1	2/17/2005	Mohammed	
		US-2004/0245617 A1	12/9/2004	Damberg, et al.	
		US-2004/0238931 A1	12/2/2004	Haba, et al.	
		US-2004/0217471 (A1)	11/4/2004	Haba	
		US-2004/0203190 A1	10/14/2004	Pfughaupt, et al.	
		US-2004/0150107 A1	8/5/2004	Cha, et al.	
		US-2004/0104470 A1	6/3/2004	Bang, et al.	
		US-2004/0031972 A1	2/19/2004	Pfughaupt, et al.	
		US-2003/0107118 A1	6/12/2003	Pfughaupt, et al.	
		US-2001/0013423 A1	2/16/2001	Dalal, et al.	08/16/2001
		US-Re 36,916	10/17/2000	Moshayedi	
		US-6,707,884 B1	3/16/2004	Andric, et al.	
		US-6,492,718 B2	12/10/2002	Ohmori	
		US-6,446,158 B1	9/3/2002	Karabatsos	
DAZ		US-6,392,162 B1	5/21/2002	Karabatsos	

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06/20/06

[illegible]

Examiner Signature	/David Zarneke/	Date Considered	05/18/2006
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1449 05/24/06 (page 9 of 20)